

Veerapraphap Nanubala

DevOps Engineer

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PROFFESIONAL SUMMARY

- Hands on experience in Configuration, Administration of **Jenkins** for continuous integration.
- Hands on experience in **Docker** Containerization tool and deployed applications using containers in various environments.
- Expertise in creating **Docker Images** and maintaining Docker Images in container registries.
- Experience in working with Kubernetes Container Orchestration tool to deploy & maintain containers.
- Experience in designing and deploying Experience in AWS services such as **EC2, ELB, Auto-Scaling, S3, IAM, VPC, RDS, DynamoDB, CloudTrail, CloudWatch, Lambda, SNS, SQS, CloudFormation, CloudFront**.
- Good Knowledge in writing **Docker files**.
- Hands on experience in writing **Terraform** scripts from scratch for building Dev, Staging, Prod and DR environments
- Hands on experience on Version Control System like **GitHub** and GitLab.
- Hands on experience in google cloud platform (**GCP**) services like **compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring, cloud deployment manager** and **GKE**
- Helped developers whenever they get issues while using git commands.
- Expertise in using **Maven** build tool for the building of deployable artifacts such as war & ear from source code.
- Experience in integrating Unit Tests and Code Quality Analysis Tools **SonarQube** as per client requirement.
- Experience in using **Nexus Repository** Manager for Maven builds.
- Experience in Configuring and deploying to Application Servers like Tomcat.
- Administration/Maintenance experiences of Continuous Integration build engine Jenkins Deploying, configuring, managing, maintaining, a Master and Slave machines using Jenkins.
- Good knowledge in **Python & Shell scripting**.
- Expertise in trouble shooting the problems generated while build and deploy.
- Efficient in working closely with teams to ensure high quality and timely delivery of builds and releases.
- Good experience on source controller concepts like Branches, Merges and Tags.
- Working Knowledge of databases like **MySQL, RDS, DynamoDB, and MongoDB**
- Working experience in Ticketing tool **Jira**.
- Good experience in end to end building and Deploying and configuring process and implementation from Dev, **QA** Environment to **UAT** and **Production**.
- Experienced on Bug tracking tools - **Confluence & Jira**.
- Good knowledge on Methodologies like **Agile** and **SDLC**.
- Good understanding of NETWORKING, TCP/IP, DNS and DHCP.
- Experience on monitoring tools using **Splunk, Stackdriver** and **Cavission**.

WORK EXPERIENCE

Company: CalabiTek
DevOps Engineer

April 2019 – June 2019

Roles and Responsibilities:

- Worked on google cloud platform (**GCP**) services like **compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring** and **cloud deployment manager**.
- Written **Terraform** modules for infrastructure management in various cloud platforms
- Implemented Continuous Integration and continuous Delivery using **Jenkins**.

- Worked on AWS services such as **EC2, ELB, Auto-Scaling, S3, IAM, VPC, RDS, DynamoDB, CloudTrail, CloudWatch, Lambda, SNS, SQS, CloudFormation, CloudFront**.
- Created and deployed **Kubernetes pod** definitions, tags, labels, multi-pod container replication in **GKE**. Managed multiple Kubernetes pod containers scaling, and auto-scaling.
- Worked on installing, configuring and managing Docker Containers, **Docker Images** for Web Servers and Applications.
- Developed a continuous deployment pipeline using **shell scripts** in **Jenkins**.
- Created Docker images using a docker file, worked on Docker container snapshots, removing images and managing Docker volumes and also **virtualized servers** in Docker as per QA and Dev-environment requirements and configured automation using Docker containers.
- Worked with the development team to generate deployment profiles (jar, war, rar) using MAVEN Scripts and Jenkins.
- Orchestrated **CI/CD** processes by responding to **Git triggers**, human input, and dependency chains and environment setup.
- Configured the permissions and required access to all the **pub/sub topics** and **sinks** to push/write the data to **Stackdriver**.
- Containerized all the ticketing related applications - **Spring Boot** Java and NodeJS applications using **Docker**.
- Worked on provisioning and managed gcloud container clusters with **Ansible**.
- Worked on CI/CD process using **GIT, Nexus, Jenkins** job creation, **Maven** build and Create Docker image and use the docker image to deploy in **GKE clusters**.
- Integrated **SonarQube** for code reviews in CI/CD pipeline.
- Coordinated with the Offshore and Onshore teams for **Production Releases**.
- Responsible for handling tickets (**JIRA**) on development and testing team closely working with two teams.
- Implemented and maintained the monitoring and alerting of production and corporate servers/storage using **stackdriver** and **Cavission**.
- Worked on POC for **SPINNAKER** implementation in pre-prod environments.

Environment: GitHub, Maven, SonarQube, Docker, Google Kubernetes Engine, Python, Ansible, Stackdriver, Cavission, JIRA, Compute Engine, App Engine, Kubernetes Engine, Cloud SQL, Cloud Storage, Cloud Bigtable, BigQuery, Cloud IAM, VPC, Load Balancing, CDN, DNS, GCR, AWS

Company: John Deere
DevOps Engineer

July 2019 – Sep 2019

Roles and Responsibilities:

- Setup projects in SonarQube which correspond to Bitbucket projects and provide Code quality analysis.
- Written Docker files and built docker images and pushing them into Container Registry
- Setup code coverage using Jacoco and SonarQube
- Written cloud build YAML files to automate CICD process using AWS Cloud Build
- Created and Provisioned Dev, QA, SIT, and PROD environments as per the requirements of each team.
- Setup monitoring and alerting in AWS using Cloud watch
- Developed CICD Pipelines using Groovy and Shell scripts in Jenkins
- Good Experience in using Nexus as Artifactory Repository for Maven builds.
- Worked on POC for Spinnaker and Flux CD to overcome the obstacles in automating the CD part of the CICD process
- Worked on creating dynamic routing/load balancing capability enabling large application auto-scaling, used ingress rules and Ingress Controllers - Nginx.
- Created and deployed Kubernetes Pod definitions, tags, labels, multi-pod container replication. Managed multiple Kubernetes pod containers scaling, and auto-scaling.
- Experience in writing Terraform Templates to spin resources like Cloud VPC's, EKS clusters, and EC2 in Public and private subnets in AWS.
- Configured AWS Firewall rules in order to allow or deny traffic to and from the EC2 instances.
- Experience in implementing Deployment strategies like Blue/Green deployments, canary deployments using CD tools like Spinnaker and Harness.

Roles and Responsibilities:

- Gather business requirements and breakdown into user stories and associated acceptance criteria.
- Analyze business use-case to understand business requirements.
- Estimate size of the stories based on impacted objects and dependencies associated production & release activities.
- Develop automation solutions leveraging bash scripts.
- Create and maintain **Blackbox**, **WMI**, **Node** exporters.
- Setup and maintain Prometheus, **Grafana**, **Alertmanager**, **Victoria metrics(TSDB)** applications.
- Create folder structure & persistent dashboards in **Grafana**.
- Designed alert email templates using Go language and alert rules using Promql.
- Wrote **Docker file** to build custom **Docker images** and push them to artifactory.
- Implement CI/CD Pipelines and initial code builds from repositories and deployment in **openshift**.
- Setup watcher on the ELK stack.
- Configure **Filebeat** to pull error logs and wrote Regex expression to apply filter in **logstash**.
- Create test plan based on user stories and acceptance criteria.
- Wrote and execute manual test cases in **qtest** to perform test validation.
- Co-coordinating with stakeholders on issues and resolved them.
- Evaluate code and configuration changes to ensure they are properly structured, valid, and is compatible with browser.
- Demo builds with stakeholders and team before production push.
- Create documentation in enterprise wiki associated to dashboards creation technical documentation and operator instruction.
- Create deployment checklist for production turn.
- Create and gather approval for Change Request before deploying code into the production environment.
- Perform post-production validation after prod turn to ensure all changes migrated successfully.

EDUCATION

Master's in Computer Science

2017 -2018

Texas A&M University-Commerce, TX

Bachelor's in Computer Science

2009 -2013

JNTU-Anantapur, India

TECHNICAL SKILLS

Containerization	: Docker, ECS
CI/CD	: Jenkins, Spinnaker, AWS codePipeline, GitlabCI
Cloud Platform	: AWS, GCP,Openshit
Build Tools	: Maven, Gradle
Source code Management	: Gitlab, GitHub
Monitoring Tools	: Splunk, Stackdriver, Cavission
Infrastructure as code	: Terraform
Orchestration	: Kubernetes, GKE, EKS
Scripting Languages	: Python, Groovy, Bash, Go
Code quality & Analysis	: SonarQube, checkmarx
Configuration Management	: Ansible
SDLC Methodologies	: Waterfall, Agile.

Other Tools	: Jira, Slack, Jfrog, Nexus
Operating System	: Linux, Mac, Windows
Databases	: MySQL, cloud SQL, MongoDB, DynamoDB, Amazon Aurora.
Networking	: TCP/IP, DNS and DHCP, Firewalls

CERTIFICATIONS

HashiCorp Certified Terraform Associate

https://www.credly.com/badges/4c0fdd9c-36de-4cf3-b176-a3bc9d7b0f5c?source=linked_in_profile